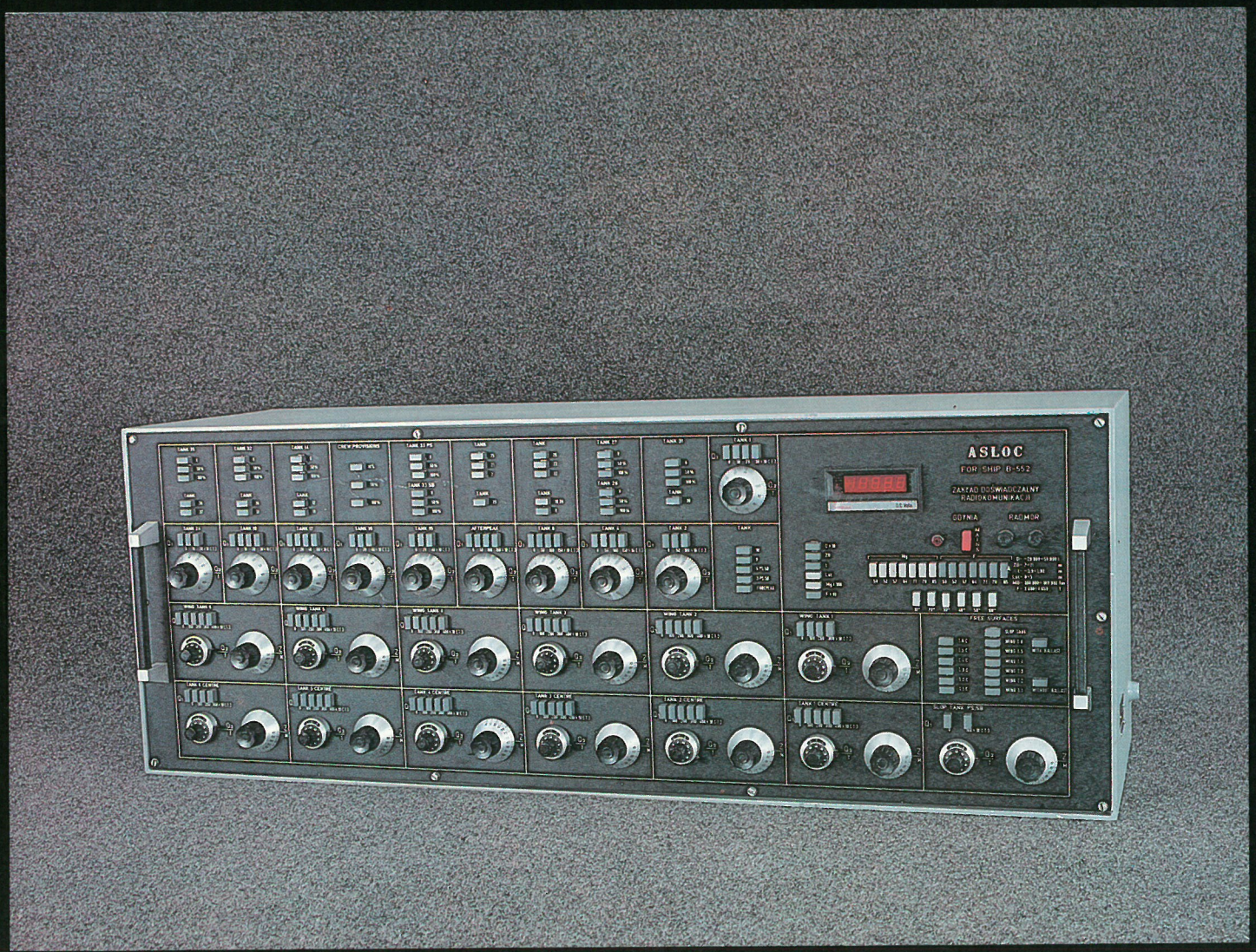
RADMOR ZAKŁADY RADIOWE

Ship load calculator ASLOC



SHIP LOAD CALCULATOR ASLOC

The calculator ASLOC is an analog device designed for the planning and checking of ship loading or unloading.
Application of the calculator allows to considerably shorten the time needed for the planning of ship loading or unloading correct from the viewpoints of ship operation and safety of navigation.
The calculator, built around integrated circuits, ensures immediate digital readout of value of the parameter checked (determined). The design provides for high reliability and simple operation of the unit.

The standard version allows to determine (check) the following parameters:
— displacement "D",
— stability "S" (generally the centre of gravity ordinate),
— trim "t",
— longitudinal still water bending moment "Mg" at arbitrary but preset cross-sections of the hull,
— still water shearing force "F" at arbitrary but preset cross-sections of the hull,
— all or some of the parameters specified above may be determined, depending on the requirements and type of ship.

Optionally a special version may be manufactured, permitting calculation of additional parameters, namely:
— mean draught "Tśr",
— forward draught "TD",
— after draught "TR",
— ordinates of branches of the curve of statical stability "Lst" for angles of heel φ=10—60 deg,
— critical value of the metacentric height "GMKV"
— dynamical stability "Ld" for angles of heel φ = 10—60 deg, with allowance taken for over-icing of ship,
— critical value of the centre of gravity ordinate "Zgkr" with allowance taken for over-icing of ship.

Besides, the following options are available:
— visual or sound signalling activated when set values of output parameters are exceeded,
— visual or sound signalling activated when critical parameter value is exceeded,
— digital outputs for connection with equipment recording values of parameters determined.

SPECIFICATIONS

Supply	220 V, 50—60 Hz
Power consumption	60 VA
Relative errors of the values measured:	
— displacement	0.25% × max. displacement
— stability	0.7% × centre of gravity ordinate for empty ship
— trim	0.08% × length between perpendiculars
— bending moment	5% × permissible value of the moment
— shearing force	5% × permissible value of the shearing force
Size and weight	depend upon the number of parameters determined and the type of ship

Manufacturer:

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